

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/575,580C
Source: 1FW/6
Date Processed by STIC: 7/17/06

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IFW16

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/575,580C

DATE: 07/17/2006
 TIME: 09:07:27

Input Set : A:\HMV-4801.txt
 Output Set: N:\CRF4\07172006\I575580C.raw

3 <110> APPLICANT: McKeon, F.
 4 Kayako, K.
 5 Ryeom, S.
 7 <120> TITLE OF INVENTION: CALCIPRESSINS: ENDOGENOUS INHIBITORS OF CALCINEURIN,
 8 USES AND REAGENTS RELATED THERETO
 10 <130> FILE REFERENCE: HMV-048.01
 13 <140> CURRENT APPLICATION NUMBER: 09/575,580C
 14 <141> CURRENT FILING DATE: 2000-05-22
 16 <150> PRIOR APPLICATION NUMBER: 60/135,431
 17 <151> PRIOR FILING DATE: 1999-05-21
 19 <150> PRIOR APPLICATION NUMBER: 60/161,195
 20 <151> PRIOR FILING DATE: 1999-10-22
 22 <160> NUMBER OF SEQ ID NOS: 49
 24 <170> SOFTWARE: PatentIn Ver. 2.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2484
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
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 33 aaccgtgcac atggcaagtt ctgaataaat ctcagctgtt ggatataactt tttgttataa 120
 34 ttactaacac ttcccttaacta gagagtaagc ctactctaag aaaaaatata actgttaattt 180
 35 cacaacctcc aaagaacccca gtgcataaaac agtaccatt tattaaggcac tgactgaatt 240
 36 ctttagtaata tgtcttcatt ttttcagat gagaaacta agattcagtt tatttgtaca 300
 37 agtagttaaa aagcaaaagct gaaattcaga cccaaatgtt cactgtatca tactgtccaa 360
 38 aaaaagaattt tatttttcag gaaagagacat gtctgctcac ttgaggtctt cttattttc 420
 39 cgctattccc caaaggaaag gggtgatctc ttaattcttt cggtatgtcc tatttgtat 480
 40 agcatataat ggttaattcag aaaaattact tctaattaca taaatttca caatgggtata 540
 41 gtgactaata cgctgaaata gaaaagtaag gcattgttat catggtcttag ttcaatgtttt 600
 42 attgcgacta tatctgataa tatacggtaa gcatctaacc acttgcagg ggcacacagag 660
 43 ccacaggggag actatgtctc gcttaaattt cccaaatgtt gcccctgtgc ttcaaaacgt 720
 44 ccccgcatgg gaaccacaaa aacgttgctt ccccgatgtt caccggcagg gcccaagagc 780
 45 cgaggactct gcccggcgtc cttcagctgg caccagctgt cagaaaagcg gaactgggg 840
 46 cgaggacttt gcccctaacc aacatggcgg ccctgaggct tcggcgttgc ggcggcagaa 900
 47 ggaagggtcac gtgaagagaa ttccgttctt ttattggccc cgtctctgg aagggggggg 960
 48 tacaataacc caacccggcgc cggccttaaa gggggccacccg ttggatctgc cgggtggccgg 1020
 49 cccctaggggc tggggggggcgtc gtcggcgcgc cggcgttctg cccctccgc gcgaaacgg 1080
 50 gacggggcggg gctggcgctg ggaggccgtg tcgctggag actgctgaca gcccggcc 1140
 51 tgccggccgcg cgattccgag ggggttaacg gcggagccgc cggccggcgg cggaccggag 1200
 52 cgcgtgaggc tccggcgcgc aagcccgag cagccgcgtg gggcgcacag ggtcgcgcgg 1260
 53 ggcggggat ggaggacggc gtggccggc cccagctgg ggcggcggcgg gaggcggcgg 1320
 54 aggcggccga ggcgcgagcg cggccgggg tgacgctgcg gcccctcgcg cccctctcg 1380
 55 gggcggccga ggcggacgag ggcggcggcgtc actggagctt cattgactgc gagatggagg 1440

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56 aggtggacct gcaggacctg cccagcgcca ccatcgctg tcacctggac ccgcgcgtgt 1500
 57 tcgtggacgg cctgtgccgg gtgaggaccc cgccggcgcc gccgtcgaaa cggaggcg 1560
 58 acacttgtt cccgaggagg cgccgcgggt cgcagcgccc agtcccgccc gcgcgcgggg 1620
 59 cggggaggca ggcacgtccc cccggctgtc cggccgcga cccgtcaggc ctggggcg 1680
 60 gggacggcgc cccgagggtc cccgtccccct agcacccccc gggcgcgcc agctcactgc 1740
 61 agagtccac aggtcgccc cggccccccgt gtgcggccag gctgtgcga cttaggggggt 1800
 62 gaattcgctc cccaaagggtgg ggcagcgccg cccggccctg cgctctcgcc atcgccccgc 1860
 63 atttactcgc tggaggaggg ggtcacctca ttcctaggaa ggaggaaaca gacattgagc 1920
 64 ggcgacgtga ctcagtgttc ataaatagga cgacgtccc gcattcccaa tctgcactat 1980
 65 tggaaagaaaa gccaatgttt gggtgaggat ccgtgttgc tcattagcca gcggctggcc 2040
 66 agtttgggtg gaattgtgtt ggggggaagg ggaccatctt tcagaccttt aggtatata 2100
 67 gtcaagaacc ttgccccctt gtgtgaaggt gtggcttgc gccatcgaaa acacccagta 2160
 68 catggggagt cgactccccc ccccgccccc cccacccccc gaaaatcca cacaatttag 2220
 69 acactttgggaa gggtgagggg caggtatgaa taatcaataa tggtggtgg gggaaagaat 2280
 70 ttatttcaaaa tctgcagttt ttgtgcagaa taaaatgtgg acaacgtgg cgtcacagaa 2340
 71 tggaaaccgggt ctttgagaga tgccccattt ggagagcagc tgtcaaaaaa agcaagtgtt 2400
 72 tcagcgctt gctgtgggtc cacaatgtc gtcaatgaac tatagttgaa ggctgctgcc 2460
 73 aatacaacac cactgtgaaa caga 2484
 74 <210> SEQ ID NO: 2
 75 <211> LENGTH: 597
 76 <212> TYPE: DNA
 77 <213> ORGANISM: Mus musculus
 78 <400> SEQUENCE: 2
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 82 cgcgtgttcg tggacggcct gtgcggggcc aaatttgaat cccttcttcg aacatatgac 120
 83 aaggacacca ctttcagta tttaagagc ttcaaacgtg tccggataaa cttcagcaac 180
 84 cccttatctg cagccatgc caggctgccc ctgcacaaga ccgagttccg ggggaaggaa 240
 85 atgaagttgtt attttgcata gactttacac atagaagtt cacacctggc tccgccccat 300
 86 cccgacaaac agttcctcat ctccccctcg gccttcctc ccgtgtgtt gaaacaagta 360
 87 gaagatgcca ccccgctcat aaattacat ctttatatg ccatctccaa gctggggcca 420
 88 ggagagaagt atgaactgca tgcagcgaca gacccactc ccagtgtgtt ggtccacgtg 480
 89 tggatgtt accaagagaa tgaggaggaa gggaaagaga tggagagaat gaagagaccc 540
 90 aagccaaaaa tcatccagac acggagaccc ggtacacac cgatccaccc tagctga 597
 91 <210> SEQ ID NO: 3
 92 <211> LENGTH: 729
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Mus musculus
 95 <400> SEQUENCE: 3
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 102 tttgctgaag aggccttcca agcactact gacttcagtg atctcccaa ctcattgttt 180
 103 gcctgcaatg ttcaccagtc tggatgtggaa gaagaggaga gcaagggaaa attcgaggaa 240
 104 ctgttcggaa cctatgtga atgtgtgacg ttccagctgt ttaagagtt ccgacgggtt 300
 105 cgaataaatt tcagccatcc caaatctgca gcccgtgccc ggtatagagct tcattgagact 360
 106 cagttcagag ggaagaagct acccctctac ttccggccagg tccagacccc agagacagat 420
 107 ggagacaaac tgcatttggc acctccacag cctgccaaac agttcctcat ctcacccccc 480
 108 tcatctccat ctgtggctg gaagccttac agcgatgcca caccgtcct caactatgac 540
 109 cttctttatg ctgtggccaa actaggacca ggagagaaat atgagctgca cgctggaaact 600
 110 gactctaccc cgagcgctgt ggtgcacatgtg tggatgtgtt ggtgcacaccc 660

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111 ccaaagactt ccccaaagcc aaaaatcaat cagacccggc ggcctggctt gccacccttc 720
112 ggtcactga 729
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116 <211> LENGTH: 198
117 <212> TYPE: PRT
118 <213> ORGANISM: Mus musculus
120 <400> SEQUENCE: 4
121 Met Glu Glu Val Asp Leu Gln Asp Leu Pro Ser Ala Thr Ile Ala Cys
122 1 5 10 15
124 His Leu Asp Pro Arg Val Phe Val Asp Gly Leu Cys Arg Ala Lys Phe
125 20 25 30
127 Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Thr Thr Phe Gln Tyr Phe
128 35 40 45
130 Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser Asn Pro Leu Ser Ala
131 50 55 60
133 Ala Asp Ala Arg Leu Arg Leu His Lys Thr Glu Phe Leu Gly Lys Glu
134 65 70 75 80
136 Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile Gly Ser Ser His Leu
137 85 90 95
139 Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu Ile Ser Pro Pro Ala Ser
140 100 105 110
142 Pro Pro Val Gly Trp Lys Gln Val Glu Asp Ala Thr Pro Val Ile Asn
143 115 120 125
145 Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu Gly Pro Gly Glu Lys Tyr
146 130 135 140
148 Glu Leu His Ala Ala Thr Asp Pro Thr Pro Ser Val Val Val His Val
149 145 150 155 160
151 Cys Glu Ser Asp Gln Glu Asn Glu Glu Glu Glu Glu Met Glu Arg
152 165 170 175
154 Met Lys Arg Pro Lys Pro Lys Ile Ile Gln Thr Arg Arg Pro Glu Tyr
155 180 185 190
157 Thr Pro Ile His Leu Ser
158 195
161 <210> SEQ ID NO: 5
162 <211> LENGTH: 242
163 <212> TYPE: PRT
164 <213> ORGANISM: Mus musculus
166 <400> SEQUENCE: 5
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168 1 5 10 15
170 Ala Ser Ile Pro Glu Asp Gly Gly Leu Phe Phe Leu Cys Cys Ile Asp
171 20 25 30
173 Arg Asp Trp Ala Val Thr Gln Cys Phe Ala Glu Glu Ala Phe Gln Ala
174 35 40 45
176 Leu Thr Asp Phe Ser Asp Leu Pro Asn Ser Leu Phe Ala Cys Asn Val
177 50 55 60
179 His Gln Ser Val Phe Glu Glu Glu Ser Lys Glu Lys Phe Glu Gly
180 65 70 75 80
182 Leu Phe Arg Thr Tyr Asp Glu Cys Val Thr Phe Gln Leu Phe Lys Ser

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183	85	90	95	
185	Phe Arg Arg Val Arg Ile Asn Phe Ser His Pro Lys Ser Ala Ala Arg			
186	100	105	110	
188	Ala Arg Ile Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Pro			
189	115	120	125	
191	Leu Tyr Phe Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu			
192	130	135	140	
194	His Leu Ala Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro Pro			
195	145	150	155	160
197	Ser Ser Pro Ser Val Gly Trp Lys Pro Ile Ser Asp Ala Thr Pro Val			
198	165	170	175	
200	Leu Asn Tyr Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly Pro Gly Glu			
201	180	185	190	
203	Lys Tyr Glu Leu His Ala Gly Thr Glu Ser Thr Pro Ser Val Val Val			
204	195	200	205	
206	His Val Cys Asp Ser Asp Met Glu Arg Glu Glu Asp Pro Lys Thr Ser			
207	210	215	220	
209	Pro Lys Pro Lys Ile Asn Gln Thr Arg Arg Pro Gly Leu Pro Pro Phe			
210	225	230	235	240
212	Gly His			
216	<210> SEQ ID NO: 6			
217	<211> LENGTH: 192			
218	<212> TYPE: PRT			
219	<213> ORGANISM: Homo sapiens			
221	<400> SEQUENCE: 6			
222	Met Asp Cys Asp Val Ser Thr Leu Val Ala Cys Val Val Asp Val Glu			
223	1	5	10	15
225	Val Phe Thr Asn Gln Glu Val Lys Glu Lys Phe Glu Gly Leu Phe Arg			
226	20	25	30	
228	Thr Tyr Asp Asp Cys Val Thr Phe Gln Leu Phe Lys Ser Phe Arg Arg			
229	35	40	45	
231	Val Arg Ile Asn Phe Ser Asn Pro Lys Ser Ala Ala Arg Ala Arg Ile			
232	50	55	60	
234	Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Lys Leu Tyr Phe			
235	65	70	75	80
237	Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu His Leu Ala			
238	85	90	95	
240	Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro Pro Ser Ser Pro			
241	100	105	110	
243	Pro Val Gly Trp Gln Pro Ile Asn Asp Ala Thr Pro Val Leu Asn Tyr			
244	115	120	125	
246	Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly Pro Gly Glu Lys Tyr Glu			
247	130	135	140	
249	Leu His Ala Gly Thr Glu Ser Thr Pro Ser Val Val His Val Cys			
250	145	150	155	160
252	Asp Ser Asp Ile Glu Glu Glu Asp Pro Lys Thr Ser Pro Lys Pro			
253	165	170	175	
255	Lys Ile Ile Gln Thr Arg Arg Pro Gly Leu Pro Pro Ser Val Ser Asn			
256	180	185	190	

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Input Set : A:\HMV-4801.txt
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262 <210> SEQ ID NO: 7
263 <211> LENGTH: 170
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 7
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271 Ile Thr Phe Gln Tyr Phe Lys Ser Phe Lys Arg Val Arg Ile Asn Phe
272 20 25 30
274 Ser Asn Pro Phe Ser Ala Ala Asp Ala Arg Leu Gln Leu His Lys Thr
275 35 40 45
277 Glu Phe Leu Gly Lys Glu Met Lys Leu Tyr Phe Ala Gln Thr Leu His
278 50 55 60
280 Ile Gly Ser Ser His Leu Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu
281 65 70 75 80
283 Ile Ser Pro Pro Ala Ser Pro Pro Val Gly Trp Lys Gln Val Glu Asp
284 85 90 95
286 Ala Thr Pro Val Ile Asn Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu
287 100 105 110
289 Gly Pro Gly Glu Lys Tyr Glu Leu His Ala Ala Thr Asp Thr Thr Pro
290 115 120 125
292 Ser Val Val Val His Val Cys Glu Ser Asp Gln Glu Lys Glu Glu Glu
293 130 135 140
295 Glu Glu Met Glu Arg Met Arg Arg Pro Lys Pro Lys Ile Ile Gln Thr
296 145 150 155 160
298 Arg Arg Pro Glu Tyr Thr Pro Ile His Leu
299 165 170
302 <210> SEQ ID NO: 8
303 <211> LENGTH: 197
304 <212> TYPE: PRT
305 <213> ORGANISM: Cricetulus griseus
307 <400> SEQUENCE: 8
308 Met His Phe Arg Asp Phe Asn Tyr Asn Phe Ser Ser Leu Ile Ala Cys
309 1 5 10 15
311 Val Ala Asn Gly Asp Val Phe Ser Glu Ser Glu Thr Arg Ala Lys Phe
312 20 25 30
314 Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Ile Thr Phe Gln Tyr Phe
315 35 40 45
317 Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser Asn Pro Leu Ser Ala
318 50 55 60
320 Ala Asp Ala Arg Leu Gln Leu His Lys Thr Glu Phe Leu Gly Lys Glu
321 65 70 75 80
323 Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile Gly Ser Ser His Leu
324 85 90 95
326 Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu Ile Ser Pro Pro Ala Ser
327 100 105 110
329 Pro Pro Val Gly Trp Lys Gln Val Glu Asp Ala Thr Pro Val Ile Asn
330 115 120 125
332 Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu Gly Pro Gly Glu Lys Tyr

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; N Pos. 2410
Seq#:28; Xaa Pos. 6
Seq#:33; Xaa Pos. 1,2,3
Seq#:46; Xaa Pos. 6
Seq#:47; Xaa Pos. 4
Seq#:48; Xaa Pos. 4

VERIFICATION SUMMARY

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L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:2400
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0